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(54) OPTO-ELECTRONIC FUNCTIONAL MATERIAL AND PRODUCTION OF THIN FILM OF THE SAME

(57)Abstract:

PURPOSE: To improve electronic characteristics such as the number of carriers and mobility and optical characteristics such as nonlinear optical const. by combining a p-conjugate compd. and a specified compd.

CONSTITUTION: This material consists of a p-conjugate compd. and a compd. (C_n compd.) expressed by formula C_n ((n) is constant >60). In the material comprising the combination of a C_n compd. and a p-conjugate compd. except for C_n , electrons or charges move from the p-conjugate compd. excluding C_n compd. to the C_n compd. so that the material has excellent optical and electronic characteristics. This material is produced by various methods, and such methods are advantageous to obtain good characteristics by laminating the p-conjugate compd. and the C_n compd. as thin films or mixed in a molecular state and formed into a thin film in order to effectively induce transfer of electrons or changes between these compds.

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